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[A new approach to the word and conjugacy problems in the braid groups](#)

[arxiv.org \(PDF\)](#)J Birman, KH Ko, SJ Lee - *Advances in Mathematics*, 1998 - Elsevier

... We also give a related solution to the **conjugacy problem**, but the improvements in its complexity are not clear at this writing. References. 1. SI Adjan, Defining relations and algorithmic problems for groups and semigroups. *Proc. ...* 9. FA Garside, The **braid group** and other groups. ...

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[The braid group and other groups](#)

FA Garside - *Quart. J. Math. Oxford*, 1969 - Oxford Univ Press

... THE **braid group** B_{n+1} was first defined by Artin in a paper published in 1926 (1). The word problem for the group was solved ... The primary concern will be to give the solution of the **conjugacy problem** in B_{n+1} . A new solution of the word problem is also given, and a new ...

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[\[PDF\] An algebraic method for public-key cryptography](#)

I Anshel, M Anshel, D Goldfeld - *Mathematical Research Letters*, 1999 - Citeseer

... An example is the **braid group** on n strands where the word **problem** for a word w (of length $|w|$) can be solved in running time $O(|w| 2^n)$ while the best known algorithm for solving the **conjugacy problem** requires at least exponential running time (see [2]). Recent developments ...

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[New key agreement protocols in braid group cryptography](#)

I Anshel, M Anshel, B Fisher, D Goldfeld - *Lecture Notes in Computer ...*, 2001 - Springer

... was introduced for constructing key agreement protocols based on combinatorial group theory, the ... security of the protocols was based on the difficulty of solving **conjugacy** and commutator ... Braid groups provide a thread linking combinatorial problems in knot theory [10] to ...

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[Conjugacy problem for braid groups and Garside groups](#)

N Franco, J Gonzalez-Meneses - *Journal of Algebra*, 2003 - Elsevier

... MathSciNet. [11]. FA Garside, The **braid group** and other groups. *Quart. ...* Full Text via CrossRef. [13]. J. Michel, A note on words in **braid** monoids. *J. Algebra* 215 (1999), pp. ... [15]. M. Picantin,

The conjugacy problem in small Gaussian groups. Comm. Algebra 29 3 (2001), pp. ...

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A practical attack on some braid group based cryptographic primitives

D Hofheinz, R Steinwandt · Lecture notes in computer science, 2002 · Springer

... So we eventually obtain an algorithm for the **conjugacy problem** in the **braid group** B_n : given $v, w \in B_n$, we compute $S(v)$ and one element w of $S(w)$. Then v and w are **conjugate** iff $w \in S(v)$. This approach cannot only be used to decide whether v and w are conjugated; it can ...

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New public-key cryptosystem using braid groups

KH Ko, SJ Lee, JH Cheon, JW Han, J Kang, C ... · Lecture Notes in ..., 2000 · Springer

... design. Key words: public key cryptosystem, **braid group**, **conjugacy problem**, key exchange, hard **problem**, non-commutative **group**, one-way function, public key infrastructure 1 Introduction 1.1 Background and Previous Results ...

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A POLYNOMIAL INVARIANT FOR KNOTS VIA VON NEUMANN ALGEBRAS1

VFR Jones - AMERICAN MATHEMATICAL SOCIETY, 1985 - ams.org

... union of the **braid groups**. Unfortunately, although the **conjugacy problem** has been solved by F. Garside [8] within each **braid group**, there is no known algorithm to decide when $(6, n)$ and (c, m) are equivalent. For a proof of ...

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The conjugacy problem in small Gaussian groups

M Picantin - Communications in Algebra, 2001 - Citeseer

... We show here how to extend the Elrifai-Morton solution for the **conjugacy problem** in **braid groups** to every small Gaussian group. ... We show here how to extend the Elrifai-Morton solution for the **conjugacy problem** in **braid groups** to every small Gaussian group. Citations. ...

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A polynomial time algorithm for the braid Diffie-Hellman conjugacy problem

JH Cheon, B Jun - Advances in cryptology-CRYPTO, 2003 - Springer

... Keywords: **Braid group**, Non-abelian **group**, **Conjugacy Problem** 1 Introduction ... Their basic mathematical **problem** is the **Conjugacy Problem** (CP) on **braids**: For a **braid group** B_n , we are asked to find a **braid** a from $u, b \in B_n$ satisfying ...

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